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RECORD

Washington
WASHINGTON • UNIVERSITY • IN • ST. LOUIS

Vol. 16 No. 11/Nov. 7, 1991



Jane Phillips-Conroy, Ph.D., associate professor and anthropologist, makes a friend during a 1983 Earthwatch-sponsored expedition to Ethiopia.

Once-in-a-lifetime opportunity

St. Louisans invited to study baboons in Ethiopia

There are a few spaces remaining for a once-in-a-lifetime opportunity to participate in baboon research in Ethiopia with noted Washington University anthropologist Jane Phillips-Conroy, Ph.D.

Next January, Phillips-Conroy, an associate professor of anatomy and neurobiology at the School of Medicine and associate professor of anthropology, will lead two groups to Awash National Park in Ethiopia to study the social structure of several baboon troops. The project is sponsored by Earthwatch, a non-profit organization whose members are "scholars and citizens working together to increase public understanding of science and to expand knowledge of the globe and its inhabitants."

Since joining the Washington University faculty in 1983, Phillips-Conroy has led six Earthwatch-sponsored expeditions. Each time, though, there were no St. Louisans among the participants. Because she teaches in St. Louis, Phillips-Conroy said she would like to have some St. Louisans help with the research.

For this outing, she needs 20 "volunteers" willing to pay \$1,995 apiece plus the cost of airfare. Most safaris are more expensive, and they don't offer any contact with the animals, Phillips-Conroy says. But she says that people interested in wildlife and in conservation issues don't often have the opportunity to participate directly. "Through Earthwatch programs like this one, they can make a contribution," she adds.

For the past 10 years, Phillips-Conroy and Clifford J. Jolly, Ph.D., professor of anthropology at New York University, have been tracking two kinds of baboons formerly considered distinct species — the hamadryas, or "desert," baboon and the anubis, or "olive," baboon. In addition to different physical characteristics, the desert and olive baboons exhibit remarkably different social structures. "A desert baboon male gathers and guards a harem of females, which mate only with him," Phillips-Conroy says. "In contrast, female olive baboons form the troop's core, and they're the ones that choose the mates."

Despite such differences, the two species interbreed and share the same territory. The area of study in Awash National Park is known as a "hybrid zone" because it contains three types of baboons: olive, desert, and hybrids formed by interbreeding olive and desert baboons. Phillips-Conroy and Jolly are mainly interested in the life history and social structure of baboons in the hybrid zone. The research will examine how the different varieties

adapt to the habitat, and also, the genetic differences responsible for different behavior traits.

Earthwatch volunteers work alongside these seasoned anthropologists to gather the information needed to answer these questions. No prior experience is necessary, since Phillips-Conroy will train all volunteers when they arrive in Ethiopia. Participants will learn to trap and tranquilize baboons, measure their weight and their reproductive condition. Dental impressions, body measurements, saliva samples and blood samples also are taken to provide a complete genetic picture of the baboons. "This information helps us trace the life histories of some of these animals," Phillips-Conroy says.

Volunteers also will have the opportunity to track baboon troops, observing their behavior, as they set off in search of food. The detailed notebooks Earthwatch volunteers provide have proven a source of invaluable information, Phillips-Conroy says. "Some of it has been used in scientific articles," she notes.

In essence, Phillips-Conroy's

Continued on p. 2

Legendary performer to play Indian music

Imrat Khan, an instrumental performer of international renown, will give a lecture-performance of traditional Indian music at 11 a.m. Wednesday, Nov. 13, in Graham Chapel. His appearance is part of the University's Assembly Series and is free and open to the public.

Khan, master of both the surbahar and sitar, is increasingly acclaimed as one of the rare Indian masters capable of conveying the full range of India's musical heritage, while staying true to its original form. In addition to appearing on both radio and television, Khan composes and plays for films.

Khan, who performs worldwide, represents the eighth generation of a

family that can trace an unbroken line of celebrated musicians to the 16th-century court of the Moghul Emperor Akbar. His family is responsible for the evolution of Indian classical music on the sitar.

His lifelong contribution to the cultural prestige of his country was honored in 1988 with India's highest musical distinction, the Sangeet Natak Akademi Award.

His appearance is co-sponsored by the University's Ashoka, the Indian Students' Association; Assembly Series; Committee on Comparative Literature; Department of Music; and Student Union.

For more information, call 935-4620.

William Webster will speak at Founders Day

Four faculty recognized for outstanding commitment

The Alumni Association will celebrate the 1853 founding of Washington University at its annual Founders Day dinner scheduled for Nov. 16 at the Adam's Mark Hotel. This year's speaker will be University alumnus William H. Webster, former director of the Central Intelligence Agency and the Federal Bureau of Investigation.

Former President Jimmy Carter named Webster director of the FBI to



William H. Webster

restore confidence in the bureau. At the time, Webster was a federal appeals court judge. Nine years later President Ronald Reagan asked Webster to assume the

leadership of the Central Intelligence Agency and help rebuild it after the controversial Iran-Contra hearings. He was asked to remain in the post by the newly elected President George Bush. Webster announced his resignation to return to private life this year. He returned to private practice as a senior partner with the Washington, D.C., law firm of Milbank, Tweed, Hadley & McCloy.

At the Founders Day dinner, four faculty will be recognized for "outstanding commitment to teaching and dedication to the intellectual and personal development of their students." The faculty award recipients are below. A story profiling Alumni Award recipients and Robert S. Brookings Award recipients will appear in the Nov. 14 Record.

The four honored faculty members are: Kathleen F. Brickey, J.D., George Alexander Madill Professor of Law; Robert O. Gregory, D.Sc., professor of electrical engineering; William C. Kirby, Ph.D., dean of University College and professor of history; James E. McLeod, director of African and Afro-American Studies and adjunct associate professor of German.

Brickey received her J.D. with distinction from the University of Kentucky in 1968 and worked with the Kentucky Crime Commission during its first survey and analysis of Kentucky jail facilities. Later, as consultant to the Kentucky Crime Commission, she was one of four drafters who rewrote the Kentucky Penal Code, which led to her first book, *Kentucky Criminal Law*. She joined the University's School of Law in 1976, focusing her research on corporate criminal liability, a field she now commands as the author of *Corporate Criminal Liability*. She is nationally recognized for her expertise in corporate homicide. In 1989 she was named the George Alexander Madill Professor of Law, thus becoming the first woman in the law school to be appointed to an endowed chair.

Gregory came to Washington University in 1954 to work toward a master's degree in electrical engineering, which he received in 1955. He then advanced through the ranks from student to instructor to full professor, stopping briefly to receive his doctoral degree in 1964. He chaired the electrical engineering department from 1975-76 and is dedicated to maintaining and improving the quality of the undergraduate curriculum. He has worked tirelessly behind the scenes as chair of the Undergraduate Committee in the

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Inside: **MEDICAL RECORD**

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- Researcher's 3-D images make Hollywood debut. Page 5
- Photographic memories of the centennial. Page 6



Aequalis will perform four works commissioned by the ensemble at 8 p.m. Nov. 17 in Edison Theatre.

New music champions Aequalis to perform

Aequalis, a nationally acclaimed trio that champions new American music, will perform one concert at 8 p.m. Nov. 17 in Edison Theatre.

The performance is part of Edison's "OVATIONS!" series.

In conjunction with its St. Louis performance, Aequalis will give a free lecture and demonstration at 4 p.m. Nov. 18 in Edison Theatre. The ensemble will discuss its collaboration with Cambodian/American composer Chinary Ung, who has received the University of Louisville Gravemeyer Award for his piece "Inner Voices" and the Kennedy Center's Friedheim Award for "Spiral."

The ensemble — comprising pianist Fred Bronstein; percussionist Michael Parola; and cellist Elizabeth Mohr — specializes in commissioning and presenting new works by American composers. The group has commissioned 15 works in the past five years.

The trio has toured extensively in the United States in its seven years of existence. During last season the group appeared on the Fromm Series at Harvard University and at New York City's Merkin Concert Hall. Its music has been broadcast nationally on Boston radio station WGBH's "Morn-

ing Pro Musica" and National Public Radio's "Performance Today."

Aequalis recently released its first compact disc, which features three pieces written for the ensemble: Rand Steiger's "Trio in Memoriam," Martin Brody's "Commedia" and Ung's "Spiral," which was commissioned by Aequalis in 1987.

The Tennessean said of Ung's piece, "This stunning and beautiful work consists of sounds that are ethnic, lush and mystical, contrasted with sounds of terror, destruction and desolation. The ensemble and imitation between the performers is so tight it is frequently difficult to tell who's playing what."

Aequalis' "OVATIONS!" performance will feature four works commissioned by the ensemble, including "Spiral."

The ensemble, which is touring under the auspices of the Mid-America Arts Alliance, is being presented in association with the University's Department of Music.

Tickets are \$18 for the general public; \$14 for senior citizens and Washington University faculty and staff; and \$9 for students.

For more information, call 935-6543.

Men's soccer team heads to NCAA play

Riding a 14-game unbeaten streak, the men's soccer team begins play in the National Collegiate Athletic Association (NCAA) Division III national tournament this Saturday, Nov. 9.

The Bears, who earned a berth in the national playoffs by winning the regular season University Athletic Association title, will play MacMurray College in Jacksonville, Ill., at 1 p.m. The Bears, with a record of 13-3-3, are seeded third in the South Central region; MacMurray, at 19-3-0, is seeded second. Fontbonne College (16-1-2) is seeded first.

The winner of Saturday's South Central region semifinal moves on to second- and third-round action next weekend, facing the winner of the Wheaton College (17-1-3) vs. Fontbonne College match. That contest will be played this Saturday in Wheaton, Ill.

Washington's stellar team defense is the trademark of this year's UAA championship squad. In the Bears last 14 games, they have outscored the opposition 35 to 2. Washington's record in that 14-game stretch is 12-0-2.

For the season, the Bears have allowed just six goals in 19 games — a school record.

This Saturday's Washington-MacMurray contest is a rematch of last year's first-round South Central region game. MacMurray won that match 1-0, as well as an earlier match this season with the Bears, also 1-0.

The Bears, who own one of Division III's top postseason winning percentages (65.4 percent, 17-9), are making their ninth NCAA tournament appearance since 1978. Washington has finished as national runner-up three times.

Dance Theatre marks 30-year anniversary with two programs

The Washington University Dance Theatre will mark its 30th year with two performances at 8 p.m. Nov. 15 and 16 in Edison Theatre.

The Dance Theatre was established to showcase the University's dance students as they perform works by both faculty and guest choreographers. This year's program, under artistic director Robert Small, artist-in-residence in the Performing Arts Department, will feature seven works, including "Unit" by New York choreographer Phyllis Lamhut.

Lamhut's piece for 12 dancers is a ritual celebrating the earth's force of gravity. The accompanying score is by Robert Moran, a contemporary and colleague of minimalist composer Phillip Glass who has written numerous works for dance and opera companies in the United States and Europe.

Other works will include "Lilies," Small's trio that combines the "opulence of the art nouveau period and hints of Claude Monet's impressionist paintings." The overture to Wagner's opera "Lohengrin" will provide the setting for the piece.

"From Stillness," a new work by Mary Jean Cowell, Ph.D., associate professor, will feature an original score by George Chave, adjunct music instructor and composer. Michael Podolski, assistant professor,

has used music by Maurice Ravel and Claude Debussy as a backdrop for "Memories," a piece about a young woman's childhood memories of her sister.

Guest choreographer Suzanne Grace, artistic director of "Burning Feet Dance Company," has re-staged "Moon Solo," which explores and creates, with the use of a large wooden hoop, the shapes, moods and magic of the moon. Accompaniment will feature oboist Keve Wilson performing Benjamin Britten's "Six Metamorphosis."

Artist-in-residence Christine O'Neal will present a work, titled "Roses of Picardy," which evokes the feel of a turn-of-the-century salon. Guest choreographer Robin Moseby's piece is a humorous look at the dynamics of dependencies among friends.

The anniversary concert is dedicated to Annelise Mertz, professor emeritus in the Performing Arts Department, who founded the Dance Theatre in 1961 and recently retired after teaching dance for 35 years at Washington University.

Tickets are \$7 for the general public and \$5 for students, senior citizens and Washington University faculty and staff.

For more information, call 935-6543.

Founders Day — *Continued from p. 1*

Electrical Engineering Department. To strengthen the undergraduate laboratory offerings, he has campaigned successfully for the creation and adoption of a number of new laboratory programs. He recently received the Institute of Electrical and Electronic Engineers-St. Louis Section Education Award in recognition of his commitment to electrical engineering education.

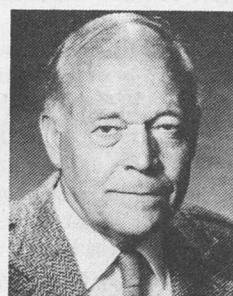
Kirby currently serves as dean of University College and professor of history. He graduated from Dartmouth College with a bachelor's degree in 1972, pursued graduate study at the Freie Universitat Berlin, and continued his graduate studies at Harvard where he was awarded a master's degree and doctorate in history in 1974 and 1981, respectively. At University College, Kirby was founder and first director of the International Affairs Program and was one of the founders and co-director for the first year of the Executive Institute. As director of East Asian Studies he was instrumental in establishing a joint J.D./M.A. degree in Law and Asian Studies and in establishing the new Joint Center for East Asian Studies, a cooperative venture of Washington University and the University of Missouri-St. Louis. He has received many prestigious grants and fellowships, including a Fulbright Grant for study in Taiwan, the American Council of Learned Societies Fellowship in Chinese Studies and a research grant sponsored by the United States National Program for Advanced Study and Research in the People's Republic of China.

McLeod contributed significantly to the undergraduate program of the Department of Germanic Languages and Literatures, which resulted in new courses, a revamped curriculum and the development of recruitment activity to attract new talent to the department. In 1984 he helped establish the Center for Contempo-

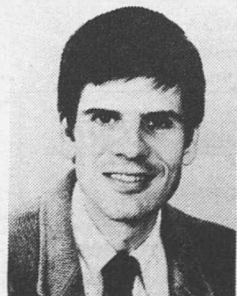
rary Literature in German, a unique resource for students and scholars who deal with contemporary literature of German-speaking countries. In 1982, he was instrumental in founding the St. Louis branch of the Goethe Institute, a German cultural organization. As director of African and Afro-American Studies, McLeod has built a cooperative dialogue with other departments, leading to joint courses and programs on the culture of African-Americans, benefiting both the campus and community. Along with academic duties, McLeod served as assistant to the chancellor from 1978 to 1988. He also established the John B. Ervin Scholarship Program, which was developed to attract talented black students to the University. His other activities include service as commissioner of the Saint Louis Art Museum and as a director of the National Council on Youth Leadership.



Kathleen F. Brickey



Robert O. Gregory



William C. Kirby



James E. McLeod

Baboons — *continued from p. 1*

Earthwatch research is funded by the volunteers. In the field, volunteers are treated as full members of the research team. "Without Earthwatch volunteers I couldn't do this research," Phillips-Conroy says.

The experience makes quite an impression on those who go, Phillips-Conroy says. "I still get letters from people who went on my first

Earthwatch trip in 1983. Some even write to ask how a specific baboon is doing — the baboons become characters in their lives."

If you would like more information about the Awash Baboon Project, please call Earthwatch at (617) 926-8200, or write Earthwatch Headquarters, 680 Mount Auburn Street, P.O. Box 403, Watertown, MA., 02272-9104.

NOTABLES

Carolyn Baum, Elias Michael Director of the Program in Occupational Therapy, assistant professor in neurology, and director of occupational therapy at Irene Walter Johnson Rehabilitation Institute, presented a program, titled "Specialized Accreditation and its Relationship to Quality Assurance" to the American Medical Association Committee on Allied Health Education and Accreditation in Chicago, Ill. She also made a presentation to the occupational therapy students at New York University on "The Practicing Occupational Therapist" and "Future Issues in Occupational Therapy."

Neil N. Bernstein, LL.B., professor of law, participated in a conference on "Cumulative Trauma Disorder" sponsored by Washington University Medical School. Bernstein spoke on "Legal Perspectives" and was a member of a panel, which discussed "How Safe is the Workplace?" Bernstein also participated in a training symposium on "Grievance Processing" sponsored by the American Arbitration Association.

Letha A. Chadiha, Ph.D., assistant professor of social work and adjunct assistant professor of anthropology, presented a paper, titled "Relationships With Fathers: African American Adolescent Parents and Non-parent Peers Compared" at an interdisciplinary conference on adolescent health and sexuality. The title of the conference was "Focus on the Future-Adolescence in the '90s. Sponsors and co-sponsors of the conference were

The University Extension of the University of Missouri-Columbia, Lincoln University in cooperation with Missouri Youth Initiative, Missouri Rural Innovation Institute and The National Organization of Adolescent Pregnancy and Parenting.

James S. Diamond, Ph.D., adjunct professor in the Department of Asian and Near Eastern Languages and Literature, presented a paper "The 'Canaanite' Movement in Israeli Literature and Culture" at the University of Washington in Seattle. The paper was the opening lecture in a three-part series on "East and West in Modern Hebrew Literature: Tradition and Innovation." Diamond also has published an article on recent trends in Israeli literary criticism: "Nurit Govrin: Critic or Curator?" in a recent issue of *Prooftexts*.

Udo Kulterman, Ph.D., Ruth and Norman Moore Professor of Architecture, recently published a book, titled *Art and Reality. From Fiedler to Derrida. Ten Approaches*.

Have you done something noteworthy?

Have you: Presented a paper? Won an award? Been named to a committee or elected an officer of a professional organization? The Washington University Record will help spread the good news. Contributions regarding faculty and staff scholarly or professional activities are gladly accepted and encouraged. Send a brief note with your full name, highest-earned degree, current title and department along with a description of your noteworthy activity to Notables, Campus Box 1070, or by electronic mail to p72245DP at WUVMC. Please include a phone number.

Donald Clayton named associate vice chancellor of medical public affairs

Donald E. Clayton has been named associate vice chancellor in addition to his present duties as executive director of medical public affairs, effective immediately, according to M. Fredric Volkmann, vice chancellor for public affairs.

As associate vice chancellor and executive director of medical public



Donald E. Clayton

affairs, Clayton oversees all aspects of the School of Medicine's public affairs operation, working closely with Volkmann and William A. Peck, M.D., vice chancellor for medical affairs and dean of the School of Medicine. Clayton supervises a staff responsible for medical news and feature writing, publications, photographic services, special projects and local as well as national media relations.

"Don Clayton has been an invaluable asset to the Washington University public affairs program, particularly in building a strong research communications effort in the medical center," Volkmann said.

Clayton joined the public affairs staff at the School of Medicine as a feature writer in 1982. He served as assistant and associate public relations director and as director of medical communications prior to his July 1990 appointment as executive director of medical public affairs.

Clayton began his science communications career as a science writer in the office of cancer communications at the National Institutes of Health in Bethesda, Md. From 1979 to 1982 he worked in the office of medical public affairs at Vanderbilt University (Nashville, Tenn). During his service to Washington University he also worked approximately two years as the coordinator of University College's communications and journalism program.

He is a member of both the Association of American Medical Colleges and the Council for the Advancement and Support of Education. A St. Louis native, Clayton has a bachelor's degree in English and biology with a minor in chemistry from Notre Dame College (St. Louis), and a master's degree with a specialty in science journalism from Marquette University School of Journalism in Milwaukee.

Introductions to new faculty

The Record is running a series profiling new faculty on the Hilltop and Medical campuses.

Lee Epstein, Ph.D., associate professor of political science, comes to Washington University from Southern Methodist University, where she was associate professor in political science. She received her bachelor's degree magna cum laude in 1980, a master's degree in 1982 and a doctorate in 1983 — all in political science from Emory University. In addition to

being co-author of *Public Interest Law Groups and Constitutional Law for a Changing America: Rights, Liberties, and Justice*, Epstein is co-authoring several other books set for publication in 1992 and 1993.

Shanta Pandey, Ph.D., assistant professor in the George Warren Brown School of Social Work, comes to the University from the University of Nevada, Reno, where she was assistant research professor and state extension specialist. She received her certificate of science in biology in 1977 and her diploma of science in botany in 1979 from Tribhuvan University in Kathmandu, Nepal, her master's of social work in 1980 from the Delhi School of Social Work in Delhi, India, and her doctorate in social policy and planning in 1989 from the Mandel School of Applied Social Sciences, Case Western Reserve University. She has published numerous articles and her areas of expertise include research, planning and social policy (monitoring and evaluation).

Michael E. Wyssession, Ph.D., assistant professor of earth and planetary sciences, comes to Washington from Northwestern University, where he was a part-time faculty member in the University College. He received his bachelor's degree in geophysics in 1984 from Brown University and his master's and doctorate in geophysics in 1988 and 1991, respectively, from Northwestern. Wyssession taught high school math and physics in New York after graduating from Brown. He has published several articles and has been the recipient of fellowships and awards, including first place in the Sigma Xi Symposia Contest for best graduate research at Northwestern (1990), and the Horace Scott Award from the Northwestern University Department of Geological Sciences in 1990. His research interests include earthquake seismology and earth structure.

Olin MBA graduates to manage East European businesses through program

The John M. Olin School of Business will be sending some of its best MBA graduates to help manage East European businesses through a program known as the MBA Enterprise Corps, Dean Robert L. Virgil, D.B.A., has announced.

The Olin School recently accepted an invitation to become one of 20 top U.S. business schools participating in the program, which has been described as a "sort of Peace Corps for the finance-and-marketing set."

"The MBA Enterprise Corps places graduated MBAs from member schools with private enterprises in countries making the transition to capitalism," Virgil said. "These MBAs will assist in the management needs of host companies and undoubtedly be great assets as these countries learn to compete in free markets."

The Enterprise Corps is operated by a consortium that includes business schools at the universities of California-Berkeley, California-Los Angeles, Carnegie Mellon, Chicago, Columbia, Cornell, Dartmouth, Duke, Indiana, Michigan, North Carolina, Northwestern, New York (NYU), Rochester, Southern Methodist, Stanford, Virginia, Pennsylvania (Wharton) and Yale.

The Corps was established in 1990 after Texas businessman H. Ross Perot and former White House Communications Director David Gergen challenged MBAs to help open opportunity for American business in Eastern and Central Europe. The consortium placed 41 MBAs in 1991 in jobs with government agencies and privatized businesses in Czechoslovakia, Poland and Hungary. Plans call for placement of about 100 MBAs in 1992, along with some expansion into other countries.

MBAs participating in the program are first sent through an intensive training program that familiarizes them with the country in which they will be working and allows them to carry on rudimentary conversations in the country's primary language. At least some of the managers working with the MBAs within the host company must be able to speak English.

The MBA Enterprise Corps is based at the Kenan Institute of Private Enterprise at the Kenan-Flagler School of Business, University of North Carolina. Initial funding is provided by the Kenan Foundation, the U.S. Agency for International Development and other private organizations.

Steedman fellow will deliver architecture talk

Michael Stanton, winner of the 1990 Steedman Fellowship competition, will give a lecture, titled "Neo-Realta," at 4 p.m. Nov. 14 in Room 116, Givens Hall.

The fellowship, which is administered by the University, enables a young architect to travel and study abroad for one year. The award competition is conducted every other year.

Stanton, assistant professor of architecture at Tulane University, will

discuss his findings, which built on research he conducted in 1984. That research focused on the eclecticism of Italian architecture during the 1930s and the function of architecture as a cultural symbol.

Stanton received his bachelor's degree in education and art from Antioch College in 1972 and his master's degree in architecture from Princeton University in 1984.

For more information, call 935-6293

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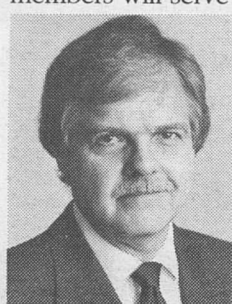
MEDICAL RECORD

Cryer named editor of diabetes journal

Philip E. Cryer, M.D., director of the division of endocrinology, diabetes and metabolism at the School of Medicine, has been named editor of the leading diabetes research publication *Diabetes*. He will assume duties Jan. 1.

Cryer, professor of medicine, is on staff at Barnes Hospital, and is a consulting physician at Jewish and St. Louis Children's hospitals, all part of Washington University Medical Center.

Six other School of Medicine faculty members will serve as associate editors of the journal. They are: David D.



Philip E. Cryer

Chaplin, M.D., Ph.D., associate professor of medicine and assistant professor of genetics and molecular microbiology; Michael L. McDaniel, Ph.D., associate professor of pathology;

Mike M. Mueckler, Ph.D., assistant professor of cell biology and physiology; M. Alan Permutt, M.D., professor of medicine; Julio V. Santiago, M.D., professor of pediatrics and associate professor of medicine; and Joseph R. Williamson, M.D., professor of pathology.

Published by the American Diabetes Association since 1952, *Diabetes* is the world's leading diabetes-related publication. Out of 4,469 scientific journals published worldwide, it ranks among the top three percent, according to a 1989 survey by the Institute for Scientific Information in Philadelphia.

The journal is published for scientists specializing in diabetes research and has a circulation of 11,500. Its current editor is R. Paul Robertson, M.D., of the University of Minnesota School of Medicine.

\$1 million awarded to MSTP Program

The School of Medicine has received \$1,021,733 from the National Institutes of Health (NIH) to fund 47 students currently in its Medical Scientist Training Program (MSTP).

The MSTP was established in 1969 to provide basic research training to medical students interested in working as academic physicians at medical schools and research institutions. The students receive combined medical and doctoral degrees after completing the six-year program.

The grant will provide financial support in the form of stipends and tuition remission. The NIH renews the grant on a five-year basis, but the money is allocated in annual installments. This year's sum represents year two of the current five-year period.

The MSTP, directed by Stuart Kornfeld, M.D., professor of medicine and of biochemistry and molecular biophysics, has been jointly funded by the NIH and by private donations to the university since it was established. It is the largest and one of the oldest of 29 such programs funded by the NIH in the United States. The MSTP is also the oldest training grant at Washington University.

Currently there are 127 students in the M.D., Ph.D. program. Since 1974, 158 students have completed the program. Of those, 95 percent entered medical residency programs rather than postdoctoral training. Of the 72 who have completed residencies or postdoctoral training, 89 percent have gone on to academic careers at educational or research institutions. Seven are professors, 16 are associate professors and 37 are assistant professors.

Nurse develops 'chairrobics' videotape

Cheryl Spessert may one day be to Broadway show tunes what Richard Simmons is to the Oldies.

While Simmons and his overweight followers stay fit by groovin' to some of Rock-n-Roll's greatest hits, Spessert incorporates Broadway classics into an exercise routine she has developed for people who are physically limited by disease. Spessert, a pulmonary nurse clinician at the School of Medicine, is the impetus behind a new exercise and educational videotape called CHAIROBICS, which she says is the first of its kind.

The two-hour videotape demonstrates exercises performed in a chair and is for people with moderate to severe chronic obstructive pulmonary disease. Spessert, who appears in the videotape, came up with the idea several years ago while directing cardio-pulmonary rehabilitation at the Fitness and Health Institute in Tucson, Ariz.

In working with patients there and at the School of Medicine, she realized that for various reasons many people did not have access to a good program of pulmonary rehabilitation. Exercises on the videotape are adapted from a progressive pulmonary rehabilitation program and are designed to help patients maintain their fitness following a formal program. The exercises also are safe for people who have never completed a formal program.

The fitness program is made fun, Spessert says, because the exercises are choreographed to familiar Broadway and classical hits, such as "If I Were A Rich Man," "Hello Dolly," and "Mame."

"It makes an enormous difference to work out to music you know, and for this particular age group these classics are some of their favorites," she says.

The videotape was produced by "trial and error," Spessert says, with a lot of assistance from her husband, Robert, who is in his last year of law school. He did much of the research to locate the song writers for the songs used in the choreography, and also became well-versed on copyright law. "Every step along the way we discovered there was some federal agency we had to go through for approvals," she says.

Spessert says the video provides instruction on breathing techniques and oxygen therapy, and teaches stretching, weight training, a cardiovascular workout and relaxation techniques. Many of the exercises benefit the upper extremities because that's where people with emphysema have difficulty maintaining strength.



Cheryl Spessert, pulmonary nurse clinician, works on a chair exercise program with Mildred Owens, an emphysema patient.

"I wanted to convey the fun and enjoyment these classes provide," she says. "I think anyone who watches the tape will feel the fun and energy of being part of the group because there is a real chemistry with the group."

Chronic obstructive lung disease affects over 14 million Americans, according to the American Lung Association, making it the fourth leading cause of disability in the United States. In 1987 alone, health care costs resulting from the disease — which physically disables many and results in a decreased quality of life — amounted to \$53 billion.

Spessert says the tape is targeted for the breathing impaired, but that it also can benefit those with heart disease, arthritis, diabetes and problems affecting balance and coordination. In addition, she says, it offers an alternative for people who can't physically leave their home to take part in an exercise program, or financially afford to purchase exercise equipment for their home.

Glasrock Home Health Care sponsored the videotape, which features patients from Spessert's

classes in Tucson. Spessert wrote the script with the assistance of Daniel M. Goodenberger, M.D., assistant professor of medicine. Other consultants were: Pam Becker Weilitz, pulmonary nurse specialist at Barnes Hospital; Jill Feldman Malen, pulmonary/thoracic nurse specialist at Barnes Hospital; and Cheri Carswell, exercise physiologist and co-director of pulmonary rehabilitation at the Fitness and Health Institute in Tucson.

Says Goodenberger of CHAIROBICS, "I have found that this pattern of pulmonary rehabilitation and education is crucial for long term care of my patients with chronic obstructive lung disease. CHAIROBICS is attractive, enjoyable to watch and educational."

Spessert hopes the tape sells because she wants to reinvest the proceeds into what she hopes will be her next project, a video series for cardiac rehabilitation. CHAIROBICS may be purchased at the Barnes Health Fair Shop for \$32.95 or by mail order from the producer. For more information, call 644-3968 or 1-800-521-7303.

—Kleila Carlson

Three researchers named to NIH study sections

Three researchers at the School of Medicine have been asked to serve on separate study sections in the Division of Research Grants for the National Institutes of Health (NIH).

The researchers are: Stephen J. Giddings, M.D., Ph.D., associate professor of medicine; Lee Ratner, M.D., Ph.D., associate professor of medicine and assistant professor of molecular microbiology; and Stanley J. Korsmeyer, M.D., professor of medicine and associate professor of molecular microbiology.

Study sections review grant applications submitted to the NIH, make recommendations on the applications to the appropriate NIH national advisory council or board, and survey

the status of research in their fields of science.

Giddings, who will serve on the Physiological Sciences Study Section, researches the regulation of insulin gene expression. He is associate chief of staff for research and development at the St. Louis Veteran's Administration Medical Center, and is a member of the Endocrine Society and the American Society for Biochemists and Molecular Biologists.

Ratner, who will serve on the AIDS and Related Research 3 Study Section, is researching the origin and development of human retrovirus infections. Ratner is co-director of the Washington University AIDS Clinical Trials Unit and oversees investigation of a variety of

new and improved therapeutic interventions for HIV infection and related retroviruses.

Korsmeyer, who will serve on the Pathology B Study Section, studies chromosomal translocations that lead to various forms of leukemia and lymphoma. He is an associate investigator with the Howard Hughes Medical Institute at the School of Medicine and a member of the American Society for Clinical Investigation.

Study section members are selected on the basis of their demonstrated achievement in their scientific discipline as evidenced by the quality of research accomplishments, publications in scientific journals and other achievements and honors.

Clear the air for annual smokeout

Smokers at the medical center are up for adoption for the American Cancer Society's 15th annual Great American Smokeout Nov. 21.

The Cancer Information Center at the medical center is asking non-smokers to find cigarette-packing people and formally adopt them for the day, lending support in their efforts to "kick the habit." All that is required, is that the adopter and adoptee go to the Cancer Information Center and sign a contract confirming that pledge of support. Survival kits with gum and candy will be available to help smokers get through the day. Adopted smokers must leave their cigarettes at the center, after which their names will be entered into a drawing for a free turkey.

If the adopted smoker stays smoke-free for the remainder of the month, the Cancer Information Center will award him or her a gift certificate for dinner for two in the non-smoking section of a favorite restaurant.

Lois Howland, nurse coordinator at the Cancer Information Center, encourages participants to pick up their adoption papers and survival kits prior to Nov. 21. "We want to encourage everybody to participate," she says.

In addition to the Adopt-A-Smoker program, a cancer survivor who lost his larynx to cancer will speak, and Robert Carafiol, Ph.D., a clinical psychologist and hypnotist, will be on hand to answer questions about using hypnosis as an alternative to smoking cessation. Videotapes and other literature will be available for those interested in quitting smoking.

The Great American Smokeout is a positive effort to encourage smokers to give up cigarettes for 24 hours, and, possibly, forever. The smokeout focuses attention on smokers and users of smokeless tobacco. The event is held each year on the third Thursday of November. Businesses, schools, hospitals, shopping malls, and military installations, are among those that participate.



Three-dimensional images of the face and cranium, developed by Michael Vannier, M.D., are shown on monitors in a surgery scene during the opening minutes of the movie, "Shattered."

Vannier's 3-D images debut on big screen

A School of Medicine researcher, whose work with three-dimensional imaging is internationally recognized, is seeing his craft on Hollywood's "big screen."

Producers of the movie "Shattered," which was released last month, called on the expertise of Michael W. Vannier, M.D., professor of radiology and assistant professor of surgery, for an opening scene of the film.

Three-dimensional images of the face and cranium, developed by Vannier, are shown on monitors in a surgery during the opening minutes of the movie. An image of a skull appears on computer monitors as surgeons attempt to reconstruct the

face of actor Tom Berenger, who stars in the film.

At the producers' request, Vannier provided an image of a man with severe craniofacial injuries from an automobile accident. Personal information from the computerized tomography (CT) scans was removed and the CT slices were assembled in the computer. Vannier then rearranged image fragments to resemble the injuries suffered by Berenger.

Berenger, who plays the role of a wealthy real estate developer, has an automobile accident in the opening scene of the film. As his Ford Thunderbird flies off a hairpin curve, Berenger's face hits the windshield. As

the car tumbles down a steep mountainside, the actor's face repeatedly strikes the jagged glass of the shattered windshield. Berenger suffers a concussion and lacerations in addition to fractures to the nose, cheekbone, jaw, and near his left eye.

Vannier, who was an engineer at NASA before becoming a physician, is internationally known for his work in three-dimensional imaging. He invented the computer algorithms that convert slices of computed tomography and magnetic resonance imaging (MRI) scans into stacks that form three-dimensional images on a computer monitor. The images help surgeons plan surgical procedures to correct craniofacial malformations and injuries, and also allow surgeons to rehearse surgery on the heart.

In the film, the technology helps surgeons reconstruct Berenger's face. And while he regains his looks, Berenger loses his memory and is diagnosed with psychogenic amnesia, a rare condition caused by psychological trauma that blocks any memory of personal history.

"Shattered" is based on the novel "The Plastic Nightmare" by Richard Neely. The film is written and directed by Wolfgang Petersen, who also directed "Das Boot." In addition to Berenger, the cast includes Bob Hoskins, Greta Scacchi, Corbin Bernsen and Joanne Whalley-Kilmer.

Doris Rolf, 77, dies

Doris Rolf, a former research assistant professor of medicine at the School of Medicine, died Oct. 26, at Bethesda-Dilworth Memorial Home after a long illness. She was 77.

A staff member at the School of Medicine from 1937 until her retirement in 1980, Rolf helped investigate the endocrine influences on renal function and function of the kidney in renal disease. From 1937 to 1968, she worked in the Department of Physiology collaborating with research performed in the laboratories of Harvey Lester White, M.D., and Peter Heinbecker, M.D.

She is survived by a sister, Lydia R. Hornstein, brother-in-law, Irwin Hornstein, and two nephews, Robert M. and Charles D. Hornstein. A memorial service will be announced.

18th-century books depict medicinal plants

The archives and rare books division of the medical library has received the gift of a set of four 18th century volumes on medicinal plants, called an herbal.

The vellum-bound volumes, containing 1,250 brilliantly hand-painted plates of fruits, flowers, trees,



shrubs and herbs, were published in Regensburg, Germany, from 1737 to 1745. In its near-perfect condition, the work is valued at approximately \$100,000.

Titled Phytanthoza iconographia sive conspectus...Plantarum, Arborum, Fruticum, Florum, Fructuum, Fungorum..., the herbal was the gift of Jean Frederick Rogier, M.D., and his wife Verna Dorothea Rogier. Rogier is a graduate of the medical school's class of 1934. "This is a superb addition to the collection and a magnificent gift for which we are deeply in the Rogiers' debt," says Susan Alon, rare book librarian. "It's a coup for the collection."

Compiled by Johann Wilhelm Weinmann, an apothecary, the herbal was manufactured at a time when the production of such large folios, particularly in anatomy and botany, was at its zenith. The books represent a dozen years of labor by many skilled artists. The principal artist, Georg Dionysius Ehret, was exploited by the publisher, and the two had a falling out with the result that Ehret is not acknowledged anywhere in the book. Weinmann himself died before the final volume was published.

The books originally served as essential references for physicians of the day, who relied almost exclusively on botanical preparations as medicine. Remarkably, the volumes presented to the school by the Rogiers are in flawless condition, their colors still bright and their binding papers unblemished. In addition to the color plates, the books include an index, a description of each plant and its various types, a

history of its uses and directions for its pharmacological preparation.

The books came into the Rogier family from Jean Rogier's mother, Stella Suppiger, whose forebears emigrated from Switzerland to the United States in 1831, eventually founding the town of Highland, Ill. It is likely that the travelers carried the 10 by 15-inch volumes with them on their journey by schooner from Le Havre to New York, up the Hudson River, through the newly opened Erie Canal and down the rivers to St. Louis.

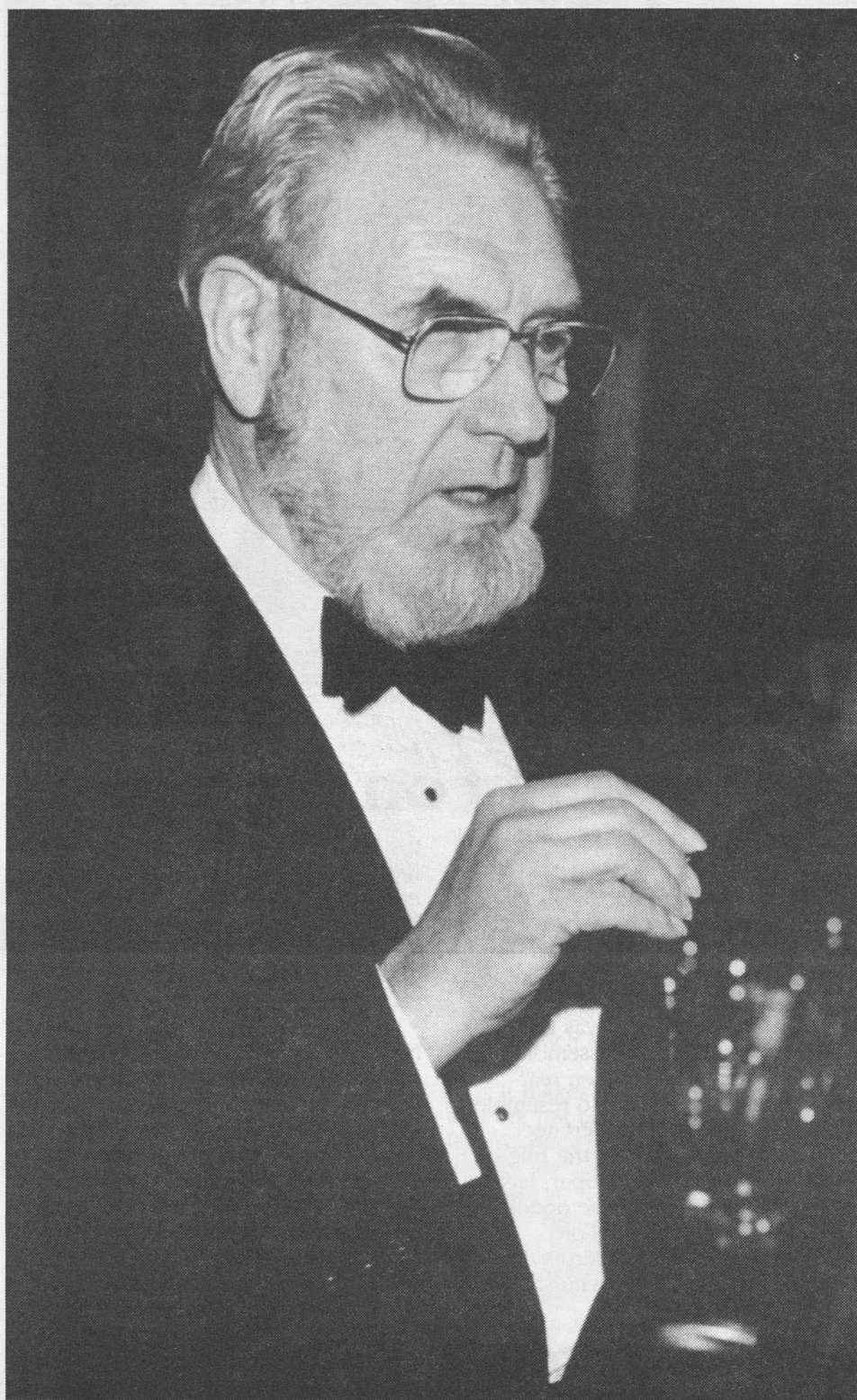
Rogier and his wife were technical advisors for most of their shared careers, working for the Agency for International Development (AID) in the Third World countries to which they were assigned. Having earned a master's degree in public health, Rogier held posts with the U.S. Government, the World Health Organization, private overseas ventures and foreign governments.

He was awarded the U.S. Army Commendation Medal, as well as the AID Superior Honor and certificate "for 32 years of devoted service in international health and for exemplifying the highest ideals of American concern for human suffering and disease in developing countries."

The archives and rare books division of the School of Medicine's library is open to the public. For more information, call Susan Alon, rare books librarian, 362-4234.

MEDICAL RECORD

Celebrating a century of excellence



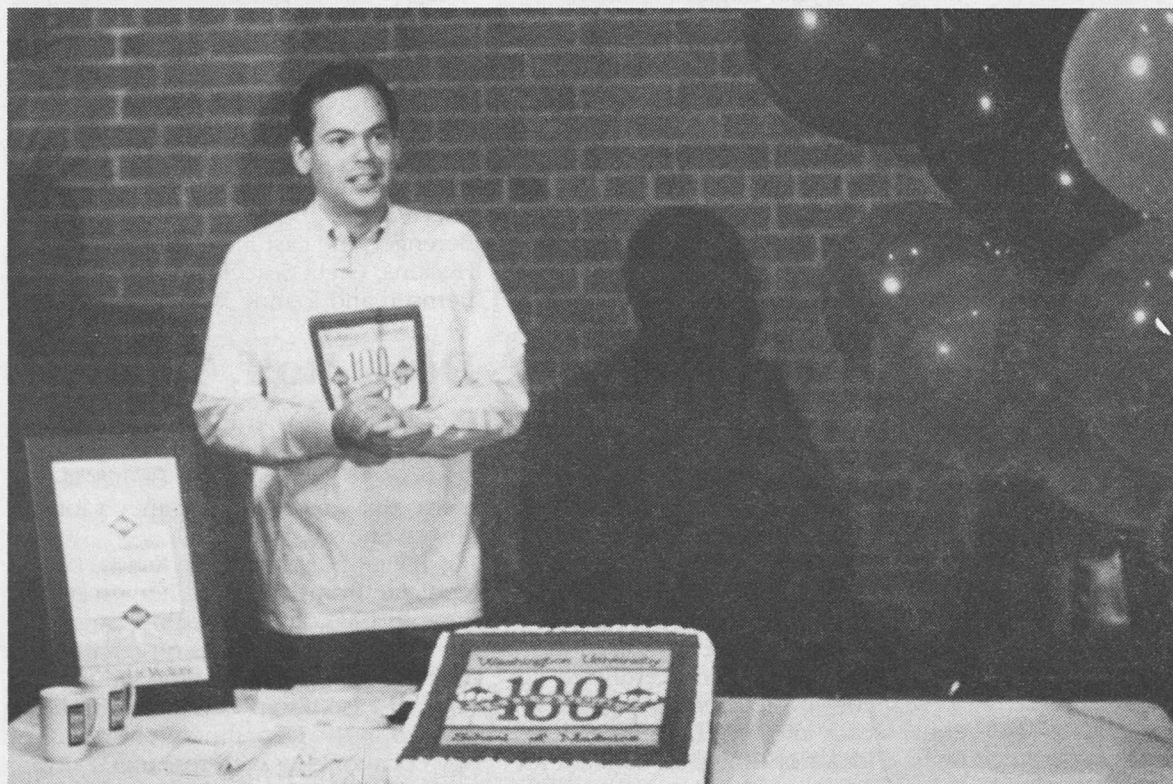
Former Surgeon General C. Everett Koop, M.D., was the guest speaker for the centennial dinner dance at the Adam's Mark Hotel, capping the evening festivities of the week-long celebration.



The curtain came down on the centennial with a day at Six Flags Over Mid-America, which was free to medical school students, faculty, staff and their families.



James D. Watson, Ph.D., a co-winner of the Nobel Prize and director of the Cold Spring Harbor Laboratory, was among the distinguished speakers during the scientific symposium that took place during the School of Medicine centennial. Watson, one of three Nobel laureates who spoke during the two days of scientific sessions, was one of 13 guest lecturers attending the event.



Scott Connell, Channel 5 meteorologist, emerged himself in the festivities by donning a centennial T-shirt and broadcasting "Today in St. Louis" at 5 a.m. from the atrium in the Medical Library. The centennial attracted both local and national media attention, and included a special dedication by the Journal of the American Medical Association (JAMA), which devoted its Oct. 9 edition to the School of Medicine's 100th anniversary. The edition included 12 medical studies conducted by School of Medicine researchers. Articles about some of the featured research appeared in The New York Times, Wall Street Journal, Los Angeles Times, USA Today and other newspapers across the country.



Guests mingle in the atrium of the Medical Library and Biomedical Communications Center, which was dedicated during the School of Medicine's centennial. Distinguished guests from Brussels, Dublin, Moscow and Beijing attended the event, and Daniel J. Boorstin, director emeritus of the U.S. Library of Congress was the keynote speaker.

PERSONNEL NEWS

Big changes planned for Social Security

Recent amendments to the Social Security law make major changes affecting your taxes, benefits and coverage. The FICA tax rate remains the same, but more of your wages will be subject to the tax. The extension of the Medicare portion of the FICA tax means that employers, employees and self-employed individuals will see an increase in their FICA taxes in 1991.

Social security taxes

Question: How much will I, as a worker, pay in Social Security taxes?

Answer: In 1991 your FICA tax rate is 7.65 percent. *Note:* While the FICA tax is commonly referred to as the Social Security tax, it actually consists of both a Social Security tax (for retirement, disability, and survivors insurance), and a Medicare tax (for hospital insurance).

In 1991 the FICA tax consists of a 6.2 percent Social Security tax and a 1.45 percent Medicare tax. The Social Security tax applies only to the first \$53,400 of your salary. However, the 1990 tax law provided for an extension of the Medicare portion of the FICA tax so that it now applies to earnings up to \$125,000.

How it works: You pay 7.65 percent in FICA taxes on earnings up to \$53,400. But, if you earn more than \$53,400, you pay 7.65 percent tax on the first \$53,400, and 1.45 percent on earnings over that amount (up to a maximum taxable wage of \$125,000). (For purposes of comparison, in 1990, the combined FICA tax rate also was 7.65 percent, but it applied only to the first \$51,300 of your salary—for a maximum tax of \$3,924.45.)

Note: Your employer matches your payment of Social Security taxes on a dollar-for-dollar basis. These taxes pay for the Social Security and Medicare benefits described. In addition, your employer must pay federal and state unemployment taxes and insurance premiums for workers compensation. A large number of employers also pay into private pension and profit-sharing plans for employees.

Question: How do I qualify for benefits?

Answer: You qualify for most Social Security benefits only if you are "fully insured." You become "fully insured" when you meet the quarters-of-coverage requirement (the number of calendar quarters in which you earned certain minimum amounts, either as an employee or a self-employed individual). Generally, you never need more than 40 quarters to qualify.

Question: How is my retirement benefit figured if I retire in 1991?

Answer: Retirement benefits are figured using the "indexing" method. Your actual earnings for past years are adjusted ("indexed") to take changes in average wages since 1951 into account. These adjustments are averaged together and a formula is applied to the average to get the benefit amount. *Note:* Benefits for workers born before 1922 are figured using a different method. Contact your local Social Security office for details.

Question: How do I apply for benefits?

Answer: You can file your application at your local Social Security office. Simply drop in or phone ahead to schedule an appointment. When you apply for benefits, you will be asked to supply certain documents as proof of your identity, age and most recent earnings, if any. These include your Social Security card or a record of your Social Security number; proof of age (birth or baptismal record, military records, or your passport); your

income tax Forms W-2 for the last two years (or copies of your last two federal income tax returns, if you were self-employed); children's birth certificates (if applying for family benefits); and your marriage certificate, if you're applying for benefits based on your spouse's earnings. If you're not sure what to bring, call your Social Security office for instructions.

Question: How long must I wait to receive my retirement benefits?

Answer: That depends on when you apply. If you apply two or three months before you retire (as the Social Security Administration suggests), you can expect your first check around the first week after your first month of retirement. If you wait and apply just before or just after you retire, your benefits should start approximately eight weeks after you apply. *Note:* You can have your checks deposited directly into your bank account—which many find is a safer, more convenient way of receiving benefits. Just bring your checkbook or savings passbook when you apply.

Question: How much will I get?

Answer: Individual benefit amounts depend on your lifetime earnings covered by Social Security and your age at retirement. Once you are on the benefit rolls, your checks increase automatically to keep pace with the cost of living. Your local Social Security office can give you a more specific answer when you apply for benefits. However, to aid in your financial planning, Social Security will send you a Personal Earnings and Benefit Estimate Statement (PEBES) upon request. The PEBES contains: the number of quarters-of-coverage credits you've earned, the number of credits you still need to be eligible for disability, survivors and retirement benefits, a yearly listing of your earnings subject to Social Security tax, estimates of disability and survivors' benefits for you and your family, and estimates of your monthly benefits should you retire at age 62, 65, or 70.

The PEBES is also the best way you have of checking the status of your Social Security account. Errors can occur and you're responsible for alerting your local Social Security office so the account records can be corrected. In fact, the Social Security Administration suggests that everyone request a PEBES every three years. That way, the records you'll need to double-check your account will be close at hand and you'll have up-to-date benefit information for your financial planning.

Question: How do I get my PEBES?

Answer: You'll need Social Security Form 7004—the Request for Earnings and Benefit Statement. You can get this form at your local Social Security office, or call toll-free 1-800-234-5772. You can request a Spanish version of the form. Just fill out the request form and mail it and your PEBES should arrive in a few weeks.

Question: Can I earn income after I retire and still keep my benefits?

Answer: Yes. You can receive all benefits if your earnings from salary or self-employment do not exceed the annual exempt amount for that year. The annual exempt amount for 1991 is \$9,720 for retirees ages 65 through 69. For those under 65, it is \$7,080.

Break for retirees

Until 1990, retirees lost \$1 in benefits for every \$2 of earnings above the annual exempt amount. But

now retirees age 65 to 69 will lose only \$1 in Social Security benefits for every \$3 of extra earnings. (Retirees under age 65 are still subject to the "one to two" limit.) Since the exempt amount increases each year as average wages go up, retirees will be able to earn higher amounts without forfeiting benefits.

Example: Arthur Able, age 66, retired in 1990. In 1991, he gets a part-time job that pays \$10,200 a year. The result? He loses \$160 in benefits, as follows:

Earnings	\$10,200
Less exempt amount	- 9,720
Excess	480

Lost benefits (\$480 divided by 3) \$160

Note: Taxpayers age 70 or over can earn any amount without having their Social Security benefits reduced.

Question: Are my benefits affected if I retire in the middle of a year?

Answer: You qualify for a special break in the calendar year you retire. Earnings prior to retirement do not affect your benefits. For the balance of that calendar year, you get full benefits for any month your wages don't exceed the monthly exempt amount and you don't perform substantial services. The monthly exempt amounts for 1991 are \$810 if you're between 65 and 69, and \$590 if you're under 65. Your annual earnings do not apply until the first full year after retirement.

Example: Anne Jones, age 65, retires at the end of May 1991. From January through May, she earned a total of \$10,450. *Result:* In June 1991 she gets her full monthly Social Security benefit. Even if she takes a part-time job between June and December 1991, she'll continue to get her full benefit in each month that she earns less than \$810. Then, from January 1992 on, the annual exempt amounts will apply.

Question: Will I still be able to retire early and collect benefits?

Answer: Yes, but you'll have to settle for reduced benefits. If you were born in 1937 or earlier, you can retire early at age 62 and receive 80 percent of your primary insurance amount (the full benefit you would get if you waited until age 65 to retire). For those born after 1937, retiring early will mean a reduced scale of benefits. The early retirement age will still be 62, but the reduction in benefits will be larger. Generally, when the phase to a normal retirement age of 67 is complete, early retirement at age 62 will yield only 70 percent of the full benefit.

Question: Will I collect higher benefits if I delay my retirement?

Answer: Yes. Workers born in 1917 through 1924 get a credit of 3 percent (or one-fourth of 1 percent per month) for each year retirement is delayed past age 65. For younger workers, the law gradually increases the credit to 8 percent per year worked past normal retirement age, as shown below:

Born In	Boost in Benefits
1925-1926	3.5%
1927-1928	4.0%
1929-1930	4.5%
1931-1932	5.0%
1933-1934	5.5%
1935-1936	6.0%
1937-1938	6.5%
1939-1940	7.0%
1941-1942	7.5%
1943 and later	8.0%

Important: The boost in benefits for extra years worked is not available for years worked past age 70.

Professional job search is under way

Washington University is conducting a search to fill a professional position on the Hilltop Campus.

Assistant Controller

Preferred qualifications: graduate degree in business and/or C.P.A. Eight to 10 years progressively responsible experience in administrative or supervisory functions, preferably in a university, health care, or non-profit environment. Knowledge of university accounting and accounting standards as prescribed by the FASB and the AICPA. Excellent interpersonal and communication skills. Related accounting experience including: external financial reporting, annual audit coordination, Internal Revenue Service compliance in a non-profit environment, student loan accounting and financial information systems coordination. Requires a high degree of judgment and initiative. Responsible for planning and organizing department activity, determining priorities and effectively utilizing staff. In addition to the responsibility of protecting the fiscal integrity of the University, the assistant controller has the objective of providing efficient and effective service to the University community. **Responsibilities:** Under the administrative direction of the controller, guide the following departments in Accounting Services: Accounts Payable; Cashier's Office, Cost Stabilization Plan; Data Center; Disbursements; Financial Reporting; General Accounting; Gifts and Plant; Payroll Office; Student Accounting/Loans; Student Organizations; Systems and Procedures and Tax Reporting. Coordinate external financial reporting, including the University's annual financial statements. Ensure the University's compliance with government regulations regarding student loan funds and IRS requirements. Coordinate the Administrative Information System meetings. Represent Accounting Services in the absence of the controller. The following positions will report directly to the assistant controller-accounting services: director of University funds; director of general accounting; manager of student accounting; manager of payroll; assistant manager, systems and systems coordinator. Work directly with and maintain a positive working relationship with University personnel, including department heads, business managers, external auditors, parents, students and banking representatives. Qualified candidates should send a letter of application with resume to: Mary D. Corcoran, Campus Box 1147, Washington University, One Brookings Drive, St. Louis, MO 63130-4899. Excellent benefits package.

Personnel News

Personnel News appears monthly in the Record and is prepared by Gloria W. White, vice chancellor for human resources and affirmative action officer, and other members of the Human Resources Office. Personnel News is designed to keep Washington University employees and their families informed of the benefits and opportunities available at the University.

CALENDAR

Nov. 7-16

LECTURES

Thursday, Nov. 7

9:30 a.m. Dept. of Internal Medicine Grand Rounds, "Lipoprotein Metabolism: A Gastroenterologist's View," Robert M. Glickman, physician-in-chief, and chair, Dept. of Medicine, Beth Israel Hospital, and Hermann Blumgart Professor of Medicine, Harvard Medical School. Clopton Aud., Wohl Hospital Bldg.

Noon. Dept. of Molecular Biology and Pharmacology Seminar, "Adventures in Information Space: Computers, Databases and the New Biology," Mark Boguski, Center for Biotechnology Information, National Library of Medicine. Room 423 McDonnell Bldg. (Software demonstration: 4 p.m., 521 Medical Library.)

Noon. Dept. of Physics Joint Gravity Meeting and Theory Seminar, "Monopole Annihilation Baryogenesis at the Electroweak Scale," Marc Sher, College of William and Mary. Room 241 Compton Hall.

Noon. Dept. of Genetics Seminar, "The Genetics of Early Development in C. Elegans," Jim Priess, F. Hutchinson Cancer Research Center. Room 816 McDonnell Bldg.

3:30 p.m. The Center for the Study of Islamic Societies and Civilizations and the Dept. of History "Law and Society: Historical Perspectives" Colloquium Series Presents "Legal Systems in Social Analysis," David T. Konig, WU chair of history. Room 113 Busch.

4 p.m. Dept. of Earth and Planetary Sciences Colloquium, "A Look at the Earth's Deep Interior From High Pressure Experiments," Elise Knittle, asst. prof., U. of California, Santa Cruz. Room 102 Wilson Hall.

4 p.m. Divisional Evolution and Population Biology Seminar, "The Effect of Localized Mating on Heritability Measurements," Stephen Tonsor, Dept. of Animal Science, Texas A&M U. Room 322 Rebstock Hall.

4 p.m. Dept. of Chemistry Seminar, "Phosphorus and Bromine: A Synthetic Playground," Christopher Spilling, U. of Missouri-St. Louis. Room 311 McMillen.

4:30 p.m. Dept. of Mathematics Colloquium, "Holomorphic Iteration in Two Variables," Nessim Sibony, Universite de Paris and U. of Michigan. Room 199 Cupples I.

8 p.m. School of Fine Arts Lecture with Marilyn Minter, New York painter. Co-sponsored by the Gallery of Art and the Greenberg Gallery. Steinberg Hall Aud.

Friday, Nov. 8

9:15 a.m. Pediatric Grand Rounds, "The Eradication of Childhood Lead Poisoning: Pipedream or Pragmatism?" Herbert L. Needleman, prof. of psychiatry and pediatrics, U. of Pittsburgh School of Medicine. Clopton Aud., 4950 Audubon Ave.

Noon. McDonnell Center for Space Sciences Brown Bag Lunch, "Interstellar Diamonds Come From Type II Supernovae," Donald Clayton, Clemson U. Room 241 Compton Hall.

Noon. Dept. of Cell Biology and Physiology Seminar, "The Submembrane Machinery for Acetylcholine Receptor Clustering," Stan Froehner, Dartmouth Medical School. Room 423 McDonnell Bldg.

1:45-5 p.m. Dept. of Molecular Microbiology Symposium, "DNA Replication: An Odyssey," Arthur Kornberg, prof. of biochemistry, Stanford U.; "The Molecular Basis of Bacterial Invasion of Host Cells," Stanley Falkow, Dept. of Microbiology and Immunology, Stanford U.; "The Proto-Oncogenes MYB & MYC in the Cell Cycle," J. Michael Bishop, prof. of microbiology and immunology, and director of The George Williams Hooper Foundation, U. of California, San Francisco. Moore Aud., 660 S. Euclid Ave.

3 p.m. Dept. of Engineering and Policy Seminar, "Using Satellite Imaging for Arms Control and Environmental Monitoring: Technology and Policy," Peter D. Zimmerman, Dept. of Engineering Management, School of Engineering and Applied Science, The George Washington U., Washington, D.C. 103 Lopata.

4 p.m. Division of Hematology/Oncology Seminar, "Transport of Proteins Into Mitochondria," Gottfried Schatz, Biozentrum der Universitat, Basel, Switzerland. Room 8841 Clinical Sciences Research Bldg.

Monday, Nov. 11

4 p.m. Dept. of Music Lecture Series Presents "Comic and Pastoral Elements in Austrian Music 1750-1800," Geoffrey Chew, U. of London. Room B-8 Blewett Hall.

4 p.m. Immunology Seminar, "The Immunopathology of T Cell Activation," Osami Kanagawa, WU assoc. prof. of pathology and medicine. Third Floor Aud., Children's Hospital.

4 p.m. Dept. of Psychology Colloquium, "National Health Insurance: The Need is Real; The Time is Now," Danny Wedding, prof. of psychology in psychiatry, U. of Missouri, and director, Missouri Institute of Mental Health. Room 102 Eads Hall.

4 p.m. Dept. of Biology Seminar, "Tokens of Love: Structure, Function, and Regulation of Drosophila Male Accessory Gland Proteins," Mariana Wolfner, Cornell U. 322 Rebstock Hall.

6 p.m. Mallinckrodt Institute of Radiology Lecture, "Advances in Vascular Magnetic Resonance Imaging (MRI)," Robert Edelman, director of MRI, Beth Israel Hospital, and assoc. prof. of radiology, Harvard Medical School. Scarpellino Aud., 510 S. Kingshighway Blvd.

8 p.m. School of Architecture Monday Night Lecture Series Presents Gisu Hariri, architect, educator, Hariri + Hariri. Steinberg Hall Aud.

Tuesday, Nov. 12

Noon. Dept. of Biology Drosophila Discussion Group Presents "A Nuclear Envelope Protein Required to Initiate Embryonic Mitosis in Drosophila," Mariana Wolfner, Cornell U.; and "Small GTP Binding Proteins, Mitosis, and Quartet," Chris Cheney, WU asst. prof. of genetics. Room 309 Rebstock Hall.

4 p.m. Dept. of Chemistry Seminar, "The Interplay of Alkylidyne Ligands and Carborane Cages at Metal Centers," F.G.A. Stone, Baylor U. Room 311 McMillen.

4 p.m. Dept. of Anthropology Colloquium, "The Ethnoarchaeology of the Okiek: Hunters of the Tropical Forest," Fiona Marshall, WU prof. of anthropology. Room 101 McMillan Hall.

4 p.m. Dept. of Biology Special Departmental Seminar, "Targeted Modifications of Pigment-Protein Complexes in Thylakoid Membranes," Himadri Pakrasi, WU asst. prof. of biology. Room 322 Rebstock Hall.

Wednesday, Nov. 13

8 a.m. Dept. of Obstetrics and Gynecology Grand Rounds, "Amniotic Fluid Embolism," Evan Taber, fellow, WU Division of Maternal-Fetal Medicine. Schwarz Aud., Maternity Hospital.

11 a.m. Assembly Series Lecture / Demonstration of Traditional Indian Music with Imrat Khan. Graham Chapel.

2:30 p.m. Dept. of Civil Engineering Seminar, "Uncertainty in Structural Design Loads," Ronald L. Sack, prof., U. of Oklahoma. Room 216 Urbauer Hall.

4 p.m. Dept. of Physics Colloquium, "Intermediate Range Order in Glasses," Priya Vashishta, Louisiana State U. Room 204 Crow.

4 p.m. Dept. of Biochemistry and Molecular Biophysics Seminar, "Control of the Cell Cycle by Protein Kinases," James Maller, Dept. of Pharmacology, U. of Colorado. Cori Aud., 660 S. Euclid Ave.

4 p.m. East Asian Colloquium, "Recent Issues of Human Rights in China," Timothy A. Gellate, School of Law, New York U. Co-sponsored by the School of Law. Room 30 January Hall.

8 p.m. Dept. of Romance Languages and Literatures Third Annual John L. Grigsby Memorial Lecture, "Breaking the Frame: The Subversion of Form in Medieval Literature," Joan Ferrante, prof. of English and comparative literature, Columbia U. Women's Bldg. Lounge.

Thursday, Nov. 14

Noon. Dept. of Genetics Seminar, "Signal Transduction in Yeast Mating," George Sprague, Institute of Molecular Biology, U. of Oregon. Room 816 McDonnell Bldg.

Noon. Dept. of Pharmacology Seminar, "Self-Assembly in Supramolecular Systems," George Gokel, prof. of chemistry, U. of Miami. Room 423 McDonnell Bldg.

1:10 p.m. George Warren Brown School of Social Work Lecture, "Urban Challenge: Grounds for Optimism," Gordon Bush, mayor of East St. Louis. Brown Hall Lounge.

3:30 p.m. The Center for the Study of Islamic Societies and Civilizations and the Dept. of History "Law and Society: Historical Perspectives" Colloquium Series Presents "The Status of Law vis-a-vis Power Relations in Syrian Cities, the 19th Century," Zouhair Ghazzal, WU Rockefeller fellow. 113 Busch.

4 p.m. Dept. of Earth and Planetary Sciences Colloquium, "TEM Investigations of Olivine Oxidation," Jillian F. Banfield, asst. prof., U. of Wisconsin-Madison. 102 Wilson.

4 p.m. Central Institute for the Deaf Research Seminar, "C.I.D. Cochlear Implant Study: A Progress Report," Ann E. Geers and Jean Moog, Central Institute for the Deaf. Second Floor Aud., Clinics and Research Bldg., 909 S. Taylor Ave.

4 p.m. Divisional Plant Biology Seminar, "Ion Channels and Signal Transduction Reduction in Higher Plant Cells," Julian Schroeder, Dept. of Biology, U. of California. Room 322 Rebstock Hall.

4:30 p.m. Dept. of Mathematics Colloquium with Zoltan Szabo, Columbia U., New York. Room 199 Cupples I.

Friday, Nov. 15

9 a.m. Cell Biology Program Thesis Defense, "NGFI-A: Biochemical Characterization and Structural Function Relationship of a Novel Transcription Factor," Mark L. Day, WU graduate student. Room 3733 West Bldg.

9:15 a.m. Pediatric Grand Rounds, "The HIV-Infected Health Care Worker," Michael T. Osterholm, state epidemiologist, Minnesota Dept. of Health, chief of Acute Disease Epidemiology Section, and adjunct assoc. prof., Division of Epidemiology, U. of Minnesota. Clopton Aud., 4950 Audubon Ave.

11 a.m. Dept. of Computer Science Colloquium, "Sequential Consistency Versus Linearizability," Jennifer L. Welch, asst. prof. of computer science, U. of North Carolina, Chapel Hill. Room 509 Bryan Hall.

4 p.m. Dept. of Music Lecture Series Presents "An Ethnomusicologist Looks at Mozart," Bruno Netti, U. of Illinois. Room B-8 Blewett Hall.

4 p.m. Hematology/Oncology Seminar, "Thrombotic Dysfibrinogenemia: A Molecular Study Design of a New Thrombolytic Approach," Jacques Cael, U. of Paris VII, France. Room 8841 Clinical Sciences Research Bldg.

Saturday, Nov. 16

9 a.m. Dept. of Pediatric Surgery Presents The James Barrett Brown Visiting Professor of Plastic Surgery Lecture, "Fetal Wound Healing," I. Kelman Cohen, chair and prof. of plastic surgery, Medical College of Virginia. Steinberg Amphitheater, Jewish Hospital.

1:30 p.m. Dept. of Classics and the St. Louis Classical Club Present a Talk, "Classical Values in Today's World," Bernard Minkin. 201 Duncker Hall. For info., call 935-5183.

PERFORMANCES

Friday, Nov. 8

8 p.m. Edison Theatre "OVATIONS!" Series Presents Batsheva Dance Company, Program I. (Also Nov. 9, same time.) Edison Theatre. Cost: \$18 for general public; \$14 for senior citizens and WU faculty and staff; and \$9 for students.

Sunday, Nov. 10

2 p.m. Edison Theatre "OVATIONS!" Series Presents Batsheva Dance Company, Program II. Edison Theatre. Cost: \$18 for general public; \$14 for senior citizens and WU faculty and staff; and \$9 for students.

Friday, Nov. 15

8 p.m. Performing Arts Dept. Presents Washington University Dance Theatre. (Also Nov. 16, same time.) Edison Theatre. Cost: \$7 for general public; \$5 for WU faculty, staff, students and senior citizens.

Sunday, Nov. 17

8 p.m. Dept. of Music and Edison Theatre "OVATIONS!" Series Presents Aequalis. Edison Theatre. Cost: \$18 for general public; \$14 for senior citizens and WU faculty and staff; and \$9 for students.

MUSIC

Tuesday, Nov. 12

8 p.m. Dept. of Music Presents a Schubert Sonata Recital with Seth Carlin. The Sheldon Theatre, 3648 Washington.

EXHIBITIONS

"A Continuous Between: The Poetry of Donald Finkel." Through Jan. 3. Special Collections, Olin Library, Level 5. Exhibit hours: 8:30 a.m.-5 p.m. weekdays. For more info., call 935-5495.

"Peter Saul Exhibition." Through Nov. 24. Bixby Gallery will show 10 works from the 1960s and 1970s as well as several more recent works. Bixby Gallery, Bixby Hall. Exhibit hours: 10 a.m.-4 p.m. weekdays; 1-5 p.m. weekends.

"School of Architecture Faculty Exhibit." Givens Hall. Exhibit continues through Nov. 13. For more info., call 935-6214.

"The Binding Influence: A Celebration of the Medical School Centennial." Through Dec. 27. Glaser Gallery, School of Medicine Library. Exhibit hours: 8:30 a.m.-10 p.m. weekdays. For more info., call 362-4239.

"Arthur Osver Exhibition." Exhibit continues Nov. 7-Dec. 7. Osver is WU prof. emeritus of fine arts. (Exhibit reception: 3 p.m. Nov. 10.) Randall Gallery, 999 N. 13th Street.

FILMS

Thursday, Nov. 7

7 and 9 p.m. Filmboard Foreign Series Presents "The Passion of Joan of Arc," a silent film. Room 100 Brown Hall. \$3. **For 24-hour Filmboard hotline, call 935-5983.**

Friday, Nov. 8

7:30 and 9:30 p.m. Filmboard Feature Series Presents "Roger & Me." (Also Nov. 9, same times, and Nov. 10 at 7:30 p.m.) 100 Brown. \$3.

Midnight. Filmboard Midnight Series Presents "Strange Brew." (Also Nov. 9, same time, and Nov. 10 at 9:30 p.m.) Room 100 Brown Hall. \$3. On Fri. and Sat., both the 9:30 p.m. and midnight films can be seen for a double feature price of \$4; both Sunday films can be seen for \$4.

Monday, Nov. 11

7 and 9 p.m. Filmboard Classic Series Presents "Portrait of Jennie." (Also Nov. 12, same times.) Room 100 Brown Hall. \$3.

Tuesday, Nov. 12

7 p.m. Dept. of Asian and Near Eastern Languages and Literatures Presents "Strange Friends," a Chinese film with English subtitles. Room 100 Busch Hall. Free.

8 p.m. School of Architecture Givens Film Series Presents "Dear Phone," "Darling Do You Love Me?" and "Alphaville." Room 116 Givens Hall. Free.

Wednesday, Nov. 13

7 and 9 p.m. Filmboard Foreign Series Presents "Monika," a Swedish film with English subtitles. (Also Nov. 14, same times.) Room 100 Brown Hall. \$3.

Friday, Nov. 15

7 and 9:30 p.m. Filmboard Feature Series Presents "Picnic at Hanging Rock." (Also Nov. 16, same times, and Nov. 17 at 7 p.m.) Room 100 Brown Hall. \$3.

Midnight. Filmboard Midnight Series Presents "The Day the Earth Stood Still." (Also Nov. 16, same time, and Nov. 17 at 9:30 p.m.) Room 100 Brown Hall. \$3. On Fri. and Sat., both the 9:30 p.m. and midnight films can be seen for a double feature price of \$4; both Sunday films can be seen for \$4.

SPORTS

Saturday, Nov. 9

1:30 p.m. Football. WU vs. U. of Chicago. Francis Field.

MISCELLANY

Thursday, Nov. 7

9:30 a.m.-Noon. University College Presents "After Homemaking? Career Decisions," a career workshop with Peg Atkins, University College national certified career counselor. (Continues every Thursday through Nov. 21.) Room 30 January Hall. Cost: \$50. For info., call 935-6766.

4:30 p.m. School of Technology and Information Management Presents a communication and networking management open house and laboratory tour. 1144 Hampton Ave. For more info., call 935-4444.

7 p.m. Pre-Med Club Presents an Introduction to Medical School Seminar with Carl Kraus, WU medical school student. Facts about medical school applications with emphasis on the new medical college admission test will be discussed. Rebstock Hall. For info., call 935-2983.

Friday, Nov. 8

1 p.m. School of Law, School of Business, and the Business, Law and Economics Center Present the F. Hodge O'Neal Conference on Corporate Law and Finance. (Opening luncheon at noon.) Simon Hall. Free. To register, call 935-6437 or 935-4183.

Tuesday, Nov. 12

8 a.m. School of Technology and Information Management CIAT Information Two-day Exchange Series Seminar, "Methodology 2000: Defining the Future of Software Engineering." (Conference continues Nov. 13, same time.) Cost: \$845 for general registration; \$745 for STIM corporate affiliates. Sheraton Plaza Hotel, West Port Plaza, St. Louis. For more info., call 935-5380.

Saturday, Nov. 16

11 a.m. Memorial service for Howard W. Jones, professor emeritus of art, who died Nov. 2. Graham Chapel.

6:30 p.m. Founders Day 1991. Adam's Mark Hotel. For more info, call 935-5122.

Calendar Deadline

The deadline to submit items for the Nov. 14-23 calendar of the Record is Nov. 8. Items must be typed and state time, date, place, nature of event, sponsor and admission cost. Incomplete items will not be printed. If available, include speaker's name and identification and the title of the event; also include your name and telephone number. Send items to Marilyn Chill, Box 1070, or by electronic mail to p72245CM at WUVMC.